

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/685,542	10/16/2003	Shigeyuki Maruyama	990250B	6009
23850	7590 08/12/2004	EXAMINER		
ARMSTRON 1725 K STRE	NG, KRATZ, QUINTO	KOBERT, RUSSELL MARC		
SUITE 1000	L1, N W	ART UNIT	PAPER NUMBER	
WASHINGTO	ON, DC 20006		2829	

DATE MAILED: 08/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Applicatio	n No	Applicant(s)		
Office Action Summary		10/685,542	2	MARUYAMA ET AL.		
	Omoc Action Cummary	Examiner		Art Unit		
 	The MAU INC DATE of this communicat	Russell M I		2829		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA nasions of time may be available under the provisions of 31 SIX (6) MONTHS from the mailing date of this communic period for reply specified above is less than thirty (30) day of period for reply is specified above, the maximum statutor are to reply within the set or extended period for reply will, reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	TION. 7 CFR 1.136(a). In no ever ation. 19s, a reply within the statury period will apply and will by statute, cause the applie	nt, however, may a reply be time tory minimum of thirty (30) days expire SIX (6) MONTHS from cation to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).		
Status						
1) 又	Responsive to communication(s) filed o	n <i>16 October 200</i> 3	J.			
	This action is FINAL . 2b) \boxtimes This action is non-final.					
3)□	, 					
Disposit	ion of Claims					
5) [] 6) [] 7) []	Claim(s) 16,18-22 and 24-31 is/are pen 4a) Of the above claim(s) is/are v Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) 16,18-22 and 24-31 are subjected.	vithdrawn from con	sideration.	ent.		
Applicat	ion Papers					
• —	The specification is objected to by the E The drawing(s) filed on is/are: a) Applicant may not request that any objection Replacement drawing sheet(s) including the	☐ accepted or b)[n to the drawing(s) b	e held in abeyance. See	e 37 CFR 1.85(a).		
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 09/268,338. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice 3) Infor	ot(s) Dee of References Cited (PTO-892) Dee of Draftsperson's Patent Drawing Review (PTO- mation Disclosure Statement(s) (PTO-1449 or PTO- Per No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:			

Art Unit: 2829

1. This application contains claims directed to the following patentably distinct species of the claimed invention:

- (1) The species of Figure 3;
- (2) The species of Figure 4;
- (3) The species of Figure 5;
- (4) The species of Figure 25;
- (5) The species of Figure 3 modified by Figure 18;
- (6) The species of Figure 3 modified by Figure 19;
- (7) The species of Figure 3 modified by Figure 20;
- (8) The species of Figure 3 modified by Figure 21;
- (9) The species of Figure 3 modified by Figures 22A and 22B;
- (10) The species of Figure 4 modified by Figure 18;
- (11) The species of Figure 4 modified by Figure 19;
- (12) The species of Figure 4 modified by Figure 20;
- (13) The species of Figure 4 modified by Figure 21;
- (14) The species of Figure 4 modified by Figures 22A and 22B;
- (15) The species of Figure 5 modified by Figure 18;
- (16) The species of Figure 5 modified by Figure 19;
- (17) The species of Figure 5 modified by Figure 20;
- (18) The species of Figure 5 modified by Figure 21;
- (19) The species of Figure 5 modified by Figures 22A and 22B;
- (20) The species of Figure 25 modified by Figure 18;
- (21) The species of Figure 25 modified by Figure 19;
- (22) The species of Figure 25 modified by Figure 20;
- (23) The species of Figure 25 modified by Figure 21;

Art Unit: 2829

- (24) The species of Figure 25 modified by Figures 22A and 22B;
- (25) The species of Figure 3 modified by Figure 23;
- (26) The species of Figure 4 modified by Figure 23;
- (27) The species of Figure 5 modified by Figure 23;
- (28) The species of Figure 25 modified by Figure 23;
- (29) The species of Figure 3 modified by Figure 18 further modified by Figure 23;
- (30) The species of Figure 3 modified by Figure 19 further modified by Figure 23;
- (31) The species of Figure 3 modified by Figure 20 further modified by Figure 23;
- (32) The species of Figure 3 modified by Figure 21 further modified by Figure 23;
- (33) The species of Figure 3 modified by Figures 22A and 22B further modified by Figure 23;
- (34) The species of Figure 4 modified by Figure 18 further modified by Figure 23;
- (35) The species of Figure 4 modified by Figure 19 further modified by Figure 23;
- (36) The species of Figure 4 modified by Figure 20 further modified by Figure 23;
- (37) The species of Figure 4 modified by Figure 21 further modified by Figure 23;
- (38) The species of Figure 4 modified by Figures 22A and 22B further modified by Figure 23;

Art Unit: 2829

(39) The species of Figure 5 modified by Figure 18 further modified by Figure 23;

- (40) The species of Figure 5 modified by Figure 19 further modified by Figure 23;
- (41) The species of Figure 5 modified by Figure 20 further modified by Figure 23;
- (42) The species of Figure 5 modified by Figure 21 further modified by Figure 23;
- (43) The species of Figure 5 modified by Figures 22A and 22B further modified by Figure 23;
- (44) The species of Figure 25 modified by Figure 18 further modified by Figure 23;
- (45) The species of Figure 25 modified by Figure 19 further modified by Figure 23;
- (46) The species of Figure 25 modified by Figure 20 further modified by Figure23;
- (47) The species of Figure 25 modified by Figure 21 further modified by Figure 23;
- (48) The species of Figure 25 modified by Figures 22A and 22B further modified by Figure 23;
 - (49) The species of Figure 3 modified by Figure 26;
 - (50) The species of Figure 4 modified by Figure 26;
 - (51) The species of Figure 5 modified by Figure 26;
 - (52) The species of Figure 25 modified by Figure 26;

Art Unit: 2829

(53) The species of Figure 3 modified by Figure 18 further modified by Figure 26;

- (54) The species of Figure 3 modified by Figure 19 further modified by Figure 26;
- (55) The species of Figure 3 modified by Figure 20 further modified by Figure 26;
- (56) The species of Figure 3 modified by Figure 21 further modified by Figure 26;
- (57) The species of Figure 3 modified by Figures 22A and 22B further modified by Figure 26;
- (58) The species of Figure 4 modified by Figure 18 further modified by Figure 26;
- (59) The species of Figure 4 modified by Figure 19 further modified by Figure 26;
- (60) The species of Figure 4 modified by Figure 20 further modified by Figure 26;
- (61) The species of Figure 4 modified by Figure 21 further modified by Figure 26;
- (62) The species of Figure 4 modified by Figures 22A and 22B further modified by Figure 26;
- (63) The species of Figure 5 modified by Figure 18 further modified by Figure 26;
- (64) The species of Figure 5 modified by Figure 19 further modified by Figure 26;

Art Unit: 2829

(65) The species of Figure 5 modified by Figure 20 further modified by Figure 26;

- (66) The species of Figure 5 modified by Figure 21 further modified by Figure 26;
- (67) The species of Figure 5 modified by Figures 22A and 22B further modified by Figure 26;
- (68) The species of Figure 25 modified by Figure 18 further modified by Figure 26;
- (69) The species of Figure 25 modified by Figure 19 further modified by Figure 26;
- (70) The species of Figure 25 modified by Figure 20 further modified by Figure 26;
- (71) The species of Figure 25 modified by Figure 21 further modified by Figure 26;
- (72) The species of Figure 25 modified by Figures 22A and 22B further modified by Figure 26;
 - (73) The species of Figures 27A, 27B and 28;
 - (74) The species of Figure 29A;
 - (75) The species of Figures 29B and 30;
 - (76) The species of Figure 31;
 - (77) The species of Figure 32;
 - (78) The species of Figure 33A and 33B;
 - (79) The species of Figure 34;
 - (80) The species of Figure 35;
 - (81) The species of Figure 36;

- (82) The species of Figure 49;
- (83) The species of Figure 50;
- (84) The species of Figure 51;
- (85) The species of Figure 52;
- (86) The species of Figure 53A and 53B.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim appears to be generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Art Unit: 2829

2. Upon election of species 1 through 72 mentioned supra, further election of subspecies is required as follows (wherein the term "species" is understood to mean "subspecies):

This application contains claims directed to the following patentably distinct species of the claimed invention:

- (1) The species of Figures 1 and 2;
- (2) The species of Figures 6A and 6B;
- (3) The species of Figures 7A and 7B;
- (4) The species of Figures 8A and 8B;
- (5) The species of Figures 9A and 9B;
- (6) The species of Figures 10A and 10B;
- (7) The species of Figures 11A and 11B;
- (8) The species of Figures 12A and 12B;
- (9) The species of Figures 13A and 13B;
- (10) The species of Figures 14A and 14B;
- (11) The species of Figures 15A and 15B;
- (12) The species of Figures 16A and 16B;
- (13) The species of Figure 17.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim appears to be generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim

Art Unit: 2829

is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

3. Upon election of species 73 through 86 mentioned supra, further election of subspecies is required as follows (wherein the term "species" is understood to mean "subspecies):

This application contains claims directed to the following patentably distinct species of the claimed invention:

- (1) The species of Figure 37A;
- (2) The species of Figure 37B;
- (3) The species of Figures 38A and 38B;
- (4) The species of Figures 39A and 39B;
- (5) The species of Figures 40A and 40B;
- (6) The species of Figures 41A and 41B;

- (7) The species of Figures 42A and 42B;
- (8) The species of Figures 43A and 43B;
- (9) The species of Figures 44A and 44B;
- (10) The species of Figures 45A and 45B;
- (11) The species of Figures 46A and 46B;
- (12) The species of Figures 47A and 47B;
- (13) The species of Figure 48.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim appears to be generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over

Art Unit: 2829

the prior art, the evidence or admission may be used in a rejection under 35

U.S.C. 103(a) of the other invention.

4. A telephone call was made to the Office of the Attorney of Record on July 26,

2004 to request an oral election to the above restriction requirement, but did not result

in an election being made.

5. A shortened statutory period for response to this action is set to expire one

month(s) from the date of this letter. Failure to respond within the period for response

will cause the application to become abandoned. 35 U.S.C. 133

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Russell Kobert whose telephone number is (571) 272-

1963. The Examiner's Supervisor, Kammie Cuneo, can be reached at (571) 272-1957.

For an automated menu of Tech Center 2800 phone numbers call (571) 272-2800.

Russell M. Kobert Patent Examiner

Group Art Unit 2829

July 26, 2004

PRIMARY EXAMINER